

India's Number 1 Education App

## BIOLOGY

## BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

## SAMPLE PAPER -3 (SOLVED)

**Bio Botany Part 1** 

1. Which of the following pteridophyte is used

as a biofertiliser ?

- A. Marsilea
- B. Pteridium
- C. Pteris
- D. Azolla



2. Which is not a charaeter of root stock?

#### A. Nodes

B. Internodes

C. Terminal bud

D. Root cap

#### Answer:

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#### 3. Who first propsed the early elementary rule

of naming plants ?

A. A.P.de Candolle

#### B. Linnaeous

#### C. Alphonse de Candolle

D. Simpson

#### Answer:

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## **4.** Which of the following alone is formed in

the division of plant cells ?

A. Aster

#### **B.** Centrioles

C. Spindle

D. Microtubules

#### Answer:

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### 5. A complete turn of the helix comprises

• • • • • • • • • • •

#### A. 34 nm

 $\mathsf{B.}\,3.4\,\mathsf{nm}$ 

C. 20 nm

D. 2 nm

#### Answer:

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### 6. Sun hemp is obtained from .....

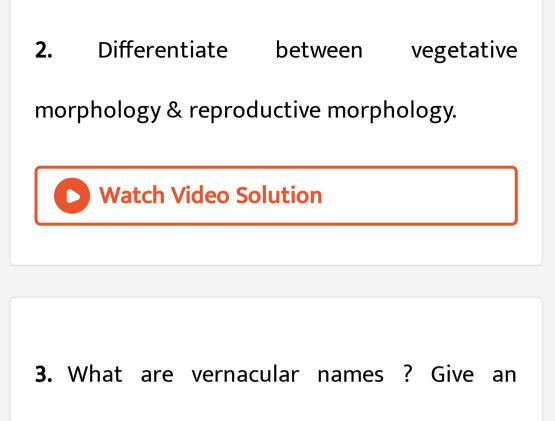
7. The color of the light is determined by its





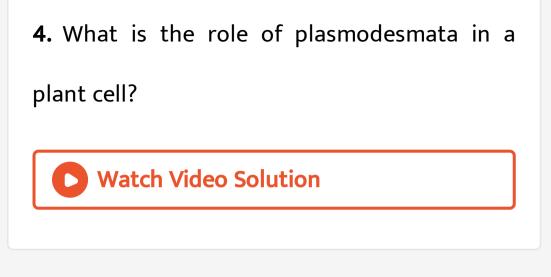
1. Write the chemical composition of bacterial

cell well .



example .



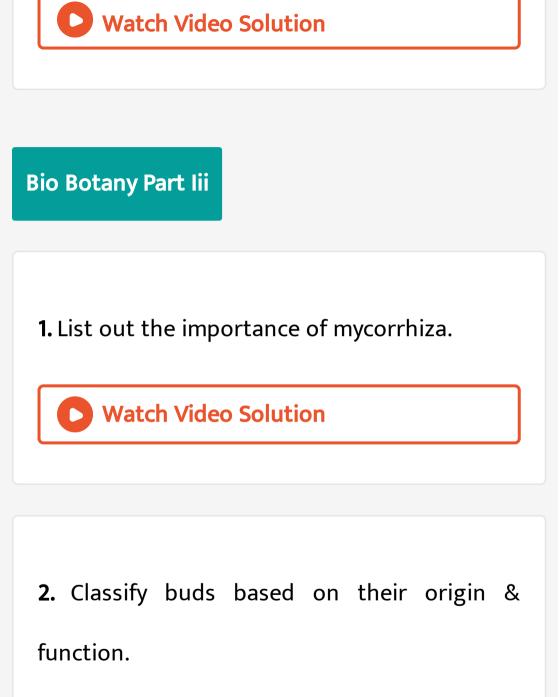


5. Define transport in plants. Mention the

tissues involved in transportation.



6. What is a Lichen?

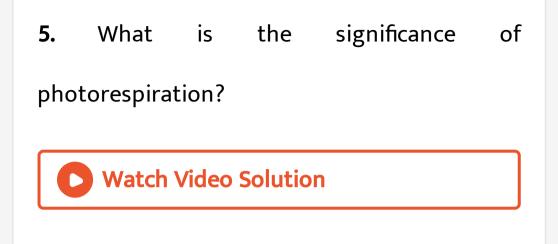




**3.** Distinguish between Karyokinesis &Cytokinesis .

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4. Draw & label bicollateral vascular bundle .

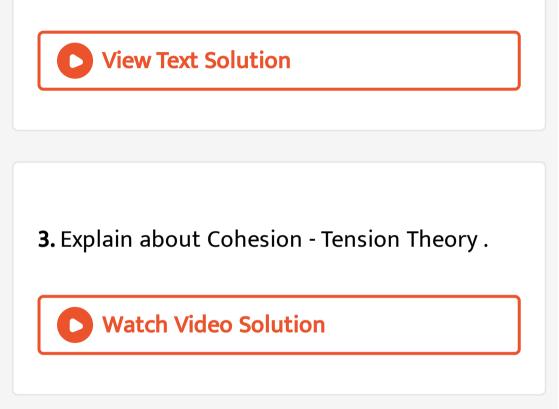


**Bio Botany Part Iv** 

1. Define ptyxis.

2. Explain Clitoria ternatea in botanical terms .

Draw floral diagram.



**4.** Explain Kuhne's experiment and the action

of enzyme zymase.

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**Bio Zoology Part I** 

- **1.** Two words comprising the binomial nomenclature are
  - A. Family & genus
  - B. Order & Family
  - C. Genus & species
  - D. Species & Variety



# **2.** Which of the following animals has a true coelom ?

A. Ascaris

B. Pheretima

C. Sycon

D. Taenia Solium

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#### 3. Match the List I and List II:

- I. Vomiting
- (i) Viral infection
- 2. Jaundice
- 3. Gall Stones
- (ii) It is reverse peristalsis
- (iii) Inflammation of the vermiform appendix
- 4. Appedicitis (iv) Crystallized cholesterol in the bil
- (a) 1 (ii), 2 (i), 3 (iv), 4 (iii)
- (b) 1 (i), 2 (ii), 3 (iii), 4 (iv)
- (c) 1 (iv), 2 (ii), 3 (i), 4 (iii)
- (d) 1 (ii), 2 (iii), 3 (iv), 4 (i)

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#### **4**. ERV stands for . . . . . .

- A. Expiratory Reserve Volume
- B. Exchange Reserve Volume
- C. Exchange Residual Volume
- D. Expiratory Residual Volume

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**5.** Which of the following is an incorrect statement ?

A. Sarcomere is the functional unit of

cardiac muscles .

B. Myoglobin is a red - coloured respiratory

pigment of the muscle fibre .

- C. The study of muscle is called myology.
- D. Skeletal muscle is attacked to the bone

by a bundle of collagen fibres known as

tendon .

#### Answer:

**6.** Which is right combination of names of ear ossicles ?

A. Malleous , incus and cochlus

B. Malleus , incus and stapes

C. Magnus, incus and stapes

D. Malleus , incus and cochlea

#### Answer:

7. Which is a breed of West Bengal?

A. Brahma

B. Aseet

C. Leghorn

D. Chittagorg

Answer:

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**Bio Zoology Part li** 

**1.** Name the sensory organs of arthropods?



 Distinguish between living and non-living things.

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**3.** Define tissues .





4. Draw the diagram of Rana hexadactlya -

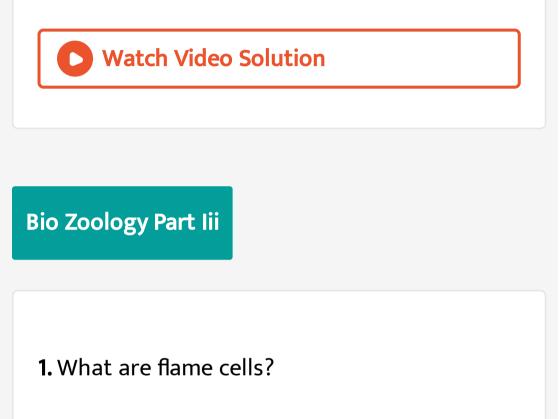
Brain dorsal view.



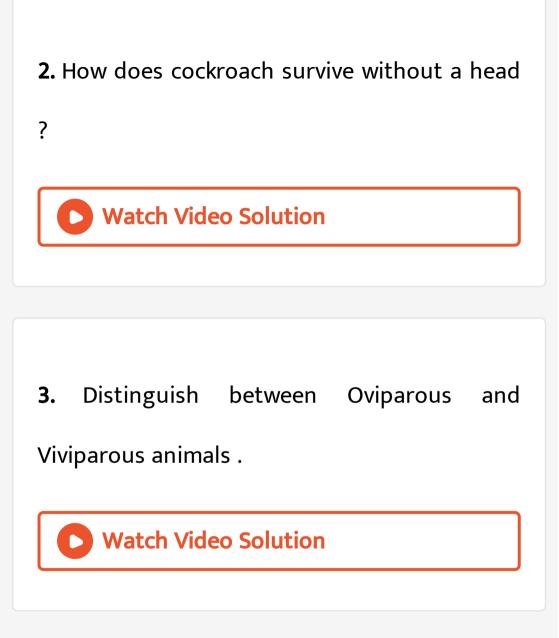
5. Name the proteins which regulates the

contraction of muscles .

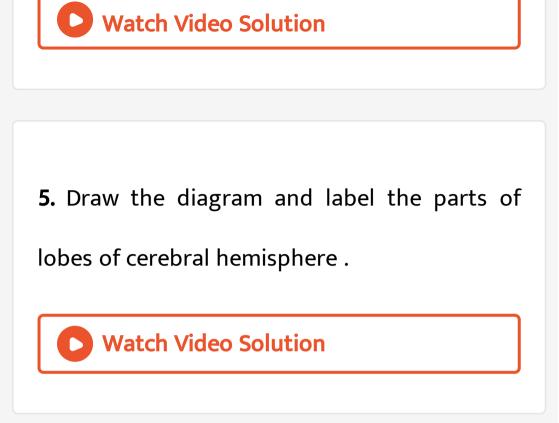
6. List any three common uses of shellac.







4. Explain limbic systems .



Bio Zoology Part Iv

1. Write the general characters of the phylum

echinodermata.





2. Explain the respiratory system of Rana

hexadactyla.

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3. What are the steps of insertion of nucleus

into oyster?

4. Write a note on Pectrol gridle .

